

Claims

- [c1] 1. A method of automatically re-establishing a GPRS connection between a mobile station and a network in which the network for the mobile station has changed from a first network to a second network following a cell reselection procedure, the method comprising:
- in the mobile station:
- receiving a detach request from a first network to terminate a current GPRS connection between the mobile station and the first network;
- terminating the GPRS connection between the mobile station and the first network pursuant to the received detach request;
- determining if the detach type parameter associated with the detach request is set to re-attach not required;
- if the detach type parameter associated with the detach request is set to re-attach not required, then determining if the detach cause parameter associated with the detach request contains a null value;
- if the detach cause parameter associated with the detach request does contain a null value, then determining if either the MCC or MNC of the second network is different from the first network and whether the second network

supports GPRS in the present cell; and if either the MCC or MNC of the second network is different from the first network and the second network supports GPRS in the present cell, then automatically initiating a GPRS attachment with the second network in the present cell.

- [c2] 2.A computer program product resident within a mobile station for automatically re-establishing a GPRS connection between the mobile station and a network in which the network for the mobile station has changed from a first network to a second network following a cell reselection procedure, the computer program product comprising:
 - computer program code for receiving a detach request from a first network to terminate a current GPRS connection between the mobile station and the first network;
 - computer program code for terminating the GPRS connection between the mobile station and the first network pursuant to the received detach request;
 - computer program code for determining if the detach type parameter associated with the detach request is set to re-attach not required;
 - if the detach type parameter associated with the detach request is set to re-attach not required, then computer program code for determining if the detach cause pa-

parameter associated with the detach request contains a null value;

if the detach cause parameter associated with the detach request does contain a null value, then computer program code for determining if either the MCC or MNC of the second network is different from the first network and whether the second network supports GPRS in the present cell; and

if either the MCC or MNC of the second network is different from the first network and the second network supports GPRS in the present cell, then computer program code for automatically initiating a GPRS attachment with the second network in the present cell.

- [c3] 3. A system for automatically re-establishing a GPRS connection between a mobile station and a network in which the network for the mobile station has changed from a first network to a second network following a cell reselection procedure, the system comprising:
- in the mobile station:
- means for receiving a detach request from a first network to terminate a current GPRS connection between the mobile station and the first network;
- means for terminating the GPRS connection between the mobile station and the first network pursuant to the received detach request;

means for determining if the detach type parameter associated with the detach request is set to re-attach not required;

if the detach type parameter associated with the detach request is set to re-attach not required, then means for determining if the detach cause parameter associated with the detach request contains a null value;

if the detach cause parameter associated with the detach request does contain a null value, then means for determining if either the MCC or MNC of the second network is different from the first network and whether the second network supports GPRS in the present cell; and if either the MCC or MNC of the second network is different from the first network and the second network supports GPRS in the present cell, then means for automatically initiating a GPRS attachment with the second network in the present cell.